

Appln No. 09/722,172
Amdt. Dated February 20, 2004
Response to Office action of October 20, 2003

1

RECEIVED
CENTRAL FAX CENTER

FEB 20 2004

In the United States Patent and Trademark Office

Serial Number: 09/722,172
Application. Filed: November 25, 2000
Applicant: Kia Silverbrook, Paul Lapstun and Tobin Allen King
Application. Title: CODE SENSOR ATTACHMENT FOR PEN
Examiner/GAU: Abbas I Abdulsalam/2674

Dated February 20, 2004
At: Balmain, NSW
Docket No. NPS022US

AMENDMENT C

Commissioner for Patents
Washington, District of Columbia 20231

Dear Sir:

In response to the Office Action of October 20, 2003, please amend the above-identified application as follows:

Amendments to the Specification begin on page 2 of this paper. The Applicant submits that these amendments introduce no new matter.

Amendments to the Claims begin on page 7 of this paper. The Applicant submits that these amendments introduce no new matter.

Remarks/Arguments begin on page 9 of this paper.

11/B
3-9-04
NP

Appin No. 09/722,172
Amdt. Dated February 20, 2004
Response to Office action of October 20, 2003

2

Amendments to the Specification:

The paragraph beginning at Page 1, lines 7-32, through to Page 2, lines 1-32 to be amended as follows:

--Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications filed by the applicant or assignee of the present invention on November 25, 2000:

<u>09/721,895 (NPA060US),</u>	<u>09/721,894 (NPA061US),</u>	<u>09/722,174 (NPA081US),</u>
<u>09/721,896 (NPA082US),</u>	<u>09/722,148 (NPP010US),</u>	<u>09/722,146 (NPP013US),</u>
<u>09/721,861 (NPP015US),</u>	<u>09/721,892 (NPP020US),</u>	<u>09/722,171 (NPP021US),</u>
<u>09/721,858 (NPP022US),</u>	<u>09/722,142 (NPP023US),</u>	<u>09/722,087 (NPS014US),</u>
<u>09/722,141 (NPS015US),</u>	<u>09/722,175 (NPS017US),</u>	<u>09/722,147 (NPS018US),</u>
<u>09/722,172 (NPS022US),</u>	<u>09/721,893 (NPS027US),</u>	<u>09/722,088 (NPS028US),</u>
<u>09/721,862 (NPT008US),</u>	<u>6,530,339 (BIN01US),</u>	<u>09/721,857 (BIN02US),</u>
<u>09/721,859 (BIN03US),</u>	<u>09/721,860 (BIN04US)</u>	

*B1
cmt*
The disclosures of these co-pending applications are incorporated herein by reference. Each application is temporarily identified by its docket number. This will be replaced by the corresponding USSN when available.--

Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications filed by the applicant or assignee of the present invention on October 20, 2000:

<u>09/693,415 (NPA011US),</u>	<u>09/693,219 (NPA031US),</u>	<u>09/693,280 (NPA040US),</u>
<u>09/693,515 (NPA046US),</u>	<u>09/693,705 (NPA053US),</u>	<u>09/693,647 (NPA059US),</u>
<u>09/693,690 (NPA064US),</u>	<u>09/693,593 (NPB006US),</u>	<u>6,474,888 (NPS004US),</u>
<u>09/693,341 (NPS008US),</u>	<u>09/696,473 (NPS013US),</u>	<u>09/696,514 (NPS024US),</u>
<u>6,454,482 (UP01US),</u>	<u>09/693,704 (UP02US),</u>	<u>6,527,365 (UP03US),</u>
<u>6,474,773 (UP04US),</u>	<u>09/693,335 (UP05US)</u>	

The disclosures of these co-pending applications are incorporated herein by reference. Each application is temporarily identified by its docket number. This will be replaced by the corresponding USSN when available.--

Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications filed by the applicant or assignee of the present invention on September 15, 2000:

<u>09/663,579 (NPA024US),</u>	<u>09/669,599 (NPA025US),</u>	<u>09/663,701 (NPA047US),</u>
<u>09/663,640 (NPA049US),</u>		

Appln No. 09/722,172
 Amdt. Dated February 20, 2004
 Response to Office action of October 20, 2003

3

The disclosures of these co-pending applications are incorporated herein by reference. Each application is temporarily identified by its docket number. This will be replaced by the corresponding USSN when available.

Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications filed by the applicant or assignee of the present invention on June 30, 2000:

09/609.139 (NPA014US),	09/608.970 (NPA015US),	09/609.039 (NPA022US),
09/607.852 (NPA026US),	09/607.656 (NPA038US),	09/609.132 (NPA041US),
09/609.303 (NPA050US),	09/610.095 (NPA051US),	09/609.596 (NPA052US),
09/607.843 (NPA063US),	09/607.605 (NPA065US),	09/608.178 (NPA067US),
09/609.553 (NPA068US),	09/609.233 (NPA069US),	09/609.149 (NPA071US),
09/608.022 (NPA072US),	09/609.232 (NPB003US),	09/607.844 (NPB004US),
6.457.883 (NPB005US),	09/608.920 (NPP019US),	09/607.985 (PEC04US),
6.398.332 (PEC05US),	6.394.573 (PEC06US),	6.622.923 (PEC07US)

B1 Cont
The disclosures of these co-pending applications are incorporated herein by reference. Each application is temporarily identified by its docket number. This will be replaced by the corresponding USSN when available.

Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications filed by the applicant or assignee of the present invention on 23 May 2000:

09/575.197 (NPA001US),	09/575.195 (NPA002US),	09/575.159 (NPA004US),
09/575.132 (NPA005US),	09/575.123 (NPA006US),	09/575.148 (NPA007US),
09/575.130 (NPA008US),	09/575.165 (NPA009US),	09/575.153 (NPA010US),
09/575.118 (NPA012US),	09/575.131 (NPA016US),	09/575.116 (NPA017US),
09/575.144 (NPA018US),	09/575.139 (NPA019US),	09/575.186 (NPA020US),
09/575.185 (NPA021US),	09/575.191 (NPA030US),	09/575.145 (NPA035US),
09/575.192 (NPA048US),	09/575.181 (NPA075US),	09/575.193 (NPB001US),
09/575.156 (NPB002US),	09/575.183 (NPK002US),	09/575.160 (NPK003US),
09/575.150 (NPK004US),	09/575.169 (NPK005US),	09/575.184 (NPM001US),
6.502.614 (NPM002US),	6.622.999 (NPM003US),	09/575.149 (NPM004US),
6.549.935 (NPN001US),	09/575.187 (NPP001US),	09/575.155 (NPP003US),
6.591.884 (NPP005US),	6.439.706 (NPP006US),	09/575.196 (NPP007US),
09/575.198 (NPP008US),	09/575.178 (NPP016US),	6.428.155 (NPP017US),
09/575.146 (NPP018US),	09/575.174 (NPS001US),	09/575.163 (NPS003US),
09/575.168 (NPS020US),	09/575.154 (NPT001US),	09/575.129 (NPT002US),
09/575.124 (NPT003US),	09/575.188 (NPT004US),	09/575.189 (NPX001US),
09/575.162 (NPX003US),	09/575.172 (NPX008US),	09/575.170 (NPX011US),
09/575.171 (NPX014US),	09/575.161 (NPX016US),	6.428.133 (IJ52US),
6.527.365 (IJ52US),	6.315.399 (MJ10US),	6.338.548 (MJ11US),
6.540.319 (MJ12US),	6.328.431 (MJ13US),	6.328.425 (MJ14US),
09/575.127 (MJ15US),	6.383.833 (MJ34US),	6.464.332 (MJ47US),

Appln No. 09/722,172
Amdt. Dated February 20, 2004
Response to Office action of October 20, 2003

4

*B1
cancel*

6,390,591 (MJ58US),	09/575,152 (MJ62US),	6,328,417 (MJ63US),
6,409,323 (PAK04US),	6,281,912 (PAK05US),	6,604,810 (PAK06US),
6,318,920 (PAK07US),	6,488,422 (PAK08US),	09/575,108 (PEC01US),
09/575,109 (PEC02US),	09/575,110 (PEC03US)	

B2

The disclosures of these co-pending applications are incorporated herein by reference. Each application is temporarily identified by its docket number. This will be replaced by the corresponding USSN when available.

The paragraph beginning at Page 7, lines 3-12, to be amended as follows:

B2

In the preferred embodiment, the invention is configured to work with the netpage networked computer system, a summary of which is given below and a detailed description of which is given in our co-pending applications, including in particular applications USSN 09/721,893 ~~_____~~ (docket no. NPS027US), USSN 09/722,142 ~~_____~~ (docket no. NPP023US), USSN 09/575,129 ~~_____~~ (docket no. NPT002US) and granted patent USSN 6,428,133 ~~09/_____~~ (docket no. ~~U52US~~). It will be appreciated that not every implementation will necessarily embody all or even most of the specific details and extensions described in these applications in relation to the basic system. However, the system is described in its most complete form to assist in understanding the context in which the preferred embodiments and aspects of the present invention operate.

The paragraphs beginning at Page 8, lines 17-30, to be amended as follows:

*B3
omit*

As illustrated in Figure 2, the netpage pen 101, a preferred form of which is described in our co-pending application USSN 09/575,174 ~~_____~~ (docket no. NPS001US), works in conjunction with a netpage printer 601, an Internet-connected printing appliance for home, office or mobile use. The pen is wireless and communicates securely with the netpage printer via a short-range radio link 9.

The netpage printer 601, preferred forms of which are described in our co-pending applications USSN 09/722,142 ~~_____~~ (docket no. NPP023US) and USSN 09/693,514 ~~_____~~ (docket no. NPS024US), is able to deliver, periodically or on demand, personalized newspapers, magazines, catalogs, brochures and other publications, all printed at high quality as interactive netpages. Unlike a personal computer, the netpage printer is an appliance which can be, for example, wall-mounted adjacent to an area where the

Appln No. 09/722,172
Amdt. Dated February 20, 2004
Response to Office action of October 20, 2003

5

B3
cancel
morning news is first consumed, such as in a user's kitchen, near a breakfast table, or near the household's point of departure for the day. It also comes in tabletop, desktop, portable and miniature versions.

← The paragraph beginning at Page 9, lines 9-16, to be amended as follows:

B4
The netpage system is made considerably more convenient in the preferred embodiment by being used in conjunction with high-speed microelectromechanical system (MEMS) based inkjet (Memjet™) printers, for example as described in our co-pending granted patent application USSN 6,428,13309/_____ (docket no. ~~US2US~~). In the preferred form of this technology, relatively high-speed and high-quality printing is made more affordable to consumers. In its preferred form, a netpage publication has the physical characteristics of a traditional newsmagazine, such as a set of letter-size glossy pages printed in full color on both sides, bound together for easy navigation and comfortable handling.

The paragraph beginning at Page 13, lines 27-31, through to Page 14, lines 1-10 to be amended as follows:

B5
One embodiment of the physical representation of the tag, shown in Figure 4a and described in our co-pending application USSN 09/575,129_____ (docket no. ~~NPT002US~~), includes fixed target structures 15, 16, 17 and variable data areas 18. The fixed target structures allow a sensing device such as the netpage pen to detect the tag and infer its three-dimensional orientation relative to the sensor. The data areas contain representations of the individual bits of the encoded tag data. To maximise its size, each data bit is represented by a radial wedge in the form of an area bounded by two radial lines and two concentric circular arcs. Each wedge has a minimum dimension of 8 dots at 1600 dpi and is designed so that its base (its inner arc), is at least equal to this minimum dimension. The height of the wedge in the radial direction is always equal to the minimum dimension. Each 4-bit data symbol is represented by an array of 2x2 wedges. The fifteen 4-bit data symbols of each of the six codewords are allocated to the four concentric symbol rings 18a to 18d in interleaved fashion. Symbols are allocated alternately in circular progression around the tag. The interleaving is designed to maximise the average spatial distance between any two symbols of the same codeword.

Appln No. 09/722,172
Amdt. Dated February 20, 2004
Response to Office action of October 20, 2003

6

The paragraph beginning at Page 18, lines 29-31, through to Page 19, lines 1-8 to be amended as follows:

B6
An object-indicating (or function-indicating) tag contains a tag ID which directly identifies a user interface element in the page description associated with the region (or equivalently, a function). All the tags in the zone of the user interface element identify the user interface element, making them all identical and therefore indistinguishable. Object-indicating tags do not, therefore, support the capture of an absolute pen path. They do, however, support the capture of a relative pen path. So long as the position sampling frequency exceeds twice the encountered tag frequency, the displacement from one sampled pen position to the next within a stroke can be unambiguously determined. As an alternative, the netpage pen 101 can contain a pair or motion-sensing accelerometers, as described in our co-pending application USSN 09/721,893 (docket no. NPS027US).